Multilayer Diplexer

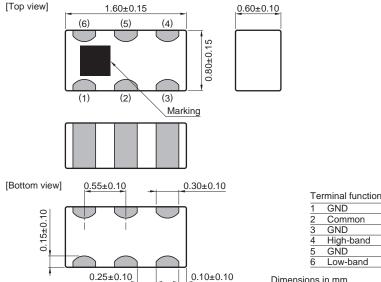
Conformity to RoHS Directive

公TDK

For 2400-2500MHz / 4900-5950MHz

DPX165950DT-8026D1

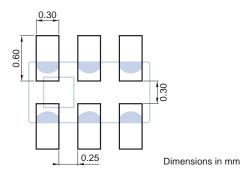
SHAPES AND DIMENSIONS



Те	rminal functions
1	GND
2	Common
3	GND
4	High-band
5	GND
6	Low-band

Dimensions in mm

RECOMMENDED LAND PATTERN



O RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html

- · All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

DPX165950DT-8026D1

ELECTRICAL CHARACTERISTICS

LOW-BAND

ltem	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	2400 to 2500	—	0.40	0.55
Return Loss (dB)	2400 to 2500	10.88	16	—
Attenuation (dB)	4800 to 5000	28	34	—
Alteridation (dB)	7200 to 7500	28	32	_
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

HIGH-BAND

ltem	Frequency Range (MHz)	Min.	Тур.	Max.
Insertion Loss (dB)	4900 to 5950	_	0.56	0.80
Return Loss (dB)	4900 to 5950	10.88	17	—
	30 to 2700	32	36	_
Attenuation (dB)	9800 to 11900	15	21	_
	14700 to 17850	13	20	_
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

Item	Frequency Range (MHz)	Min.	Тур.	Max.
Isolation (dB)	30 to 2700	32	34	_
Isolation (ub)	4900 to 5950	28	31	_
Boturn Loop (dB)	2400 to 2500	10.88	16	—
Return Loss (dB)	4900 to 5950	10.88	17	—
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

TEMPERATURE RANGE

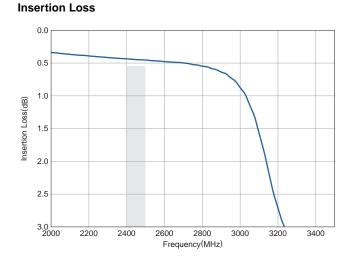
Operating temperature	Storage temperature
(°C)	(°C)
-40 to +85	-40 to +85

• All specifications are subject to change without notice.

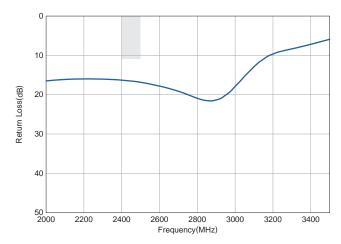
DPX165950DT-8026D1

FREQUENCY CHARACTERISTICS

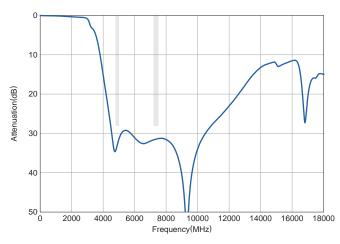
LOW-BAND



Return Loss

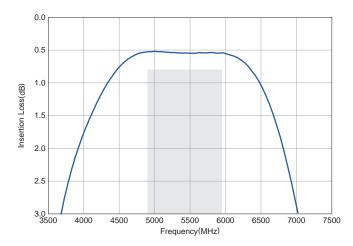


Attenuation

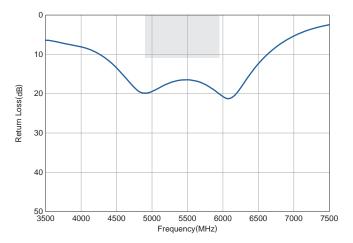




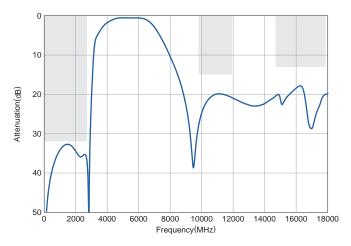
Insertion Loss



Return Loss



Attenuation

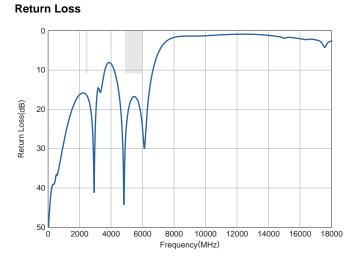


• All specifications are subject to change without notice.

DPX165950DT-8026D1

FREQUENCY CHARACTERISTICS





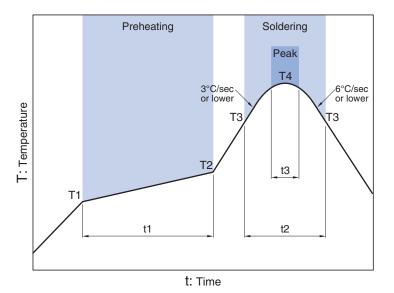
(Topological and the second se

Isolation

• All specifications are subject to change without notice.

⊗TDK

RECOMMENDED REFLOW PROFILE



Soldering Preheating Critical zone (T3 to T4) Peak Temp. Time Temp. Time Temp. Time T1 T2 **T**4 t1 ТЗ t2 t3* 150°C 200°C 60 to 120sec 217°C 60 to 120sec 240 to 260°C 30sec max.

 * t3 : Time within 5°C of actual peak temperature

The maximum number of reflow is 3.

• All specifications are subject to change without notice.

REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

▲ REMINDERS

The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this catalog.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/ equipment or providing backup circuits, etc., to ensure higher safety.

• All specifications are subject to change without notice.